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# 1 [Data transmission over FDM/FM troposcatter systems](#)



Leang P. Yeh

October 1969

**Proceedings of the first ACM symposium on Problems in the optimization of data communications systems**

Publisher: ACM Press

Full text available: pdf(1.60 MB)

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There are more than one hundred troposcatter systems of various sizes in existence all over the world.<sup>1</sup> As the transmission of computer data becomes more and more in common and popular demand, such systems are certain to be involved in these services. Two methods are generally used for transmitting data over troposcatter channels: direct transmission and FDM/FM technique. In the latter, the individual data channels are combined into an FDM baseband to frequen ...

# 2 [A simplified EM algorithm for detection of CPM signals in a fading multipath channel](#)

Linda M. Zeger, Hisashi Kobayashi

 November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(181.83 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Application of the EM (Expectation-Maximization) algorithm to sequence estimation in an unknown channel can in principle produce MLSE (maximum likelihood sequence estimates) that are not dependent on a particular channel estimate. The Expectation step of this algorithm cannot be directly performed for continuous phase modulated (CPM) signals transmitted in a time varying multipath channel. We therefore derive a simplification of the EM algorithm for CPM signals in this channel. Simulations appli ...

**Keywords:** EM algorithm, mobile communication, multipath channels, sequence estimation

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## » Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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| L5    | 1    | ((multiple adj path) multipath (multi adj path)) with (propagation propagation)) and (random with serial) and phase and amplitude and (shadow\$3 blocking) and (align\$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/08 15:41 |
| S24   | 46   | propagation same random   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 18:50 |
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